DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Siegenthaler, Peter **Report No:** WIR-017868 Address: 333 Burma Road **Date Inspected:** 21-Oct-2010

City: Oakland, CA 94607

OSM Arrival Time: 700 **Project Name:** SAS Superstructure **OSM Departure Time:** 1900 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes Li Yang No **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes N/A **Approved Drawings:** Yes No **Approved WPS:** No Yes No N/A **Delayed / Cancelled:**

Bridge No: 34-0006 **Component:** Orthotropic Box Girder (OBG)

Summary of Items Observed:

On this day CALTRANS OSM Quality Assurance (QA) Inspector Manoj Prabhune was present during the times noted above for observations relative to the fabrication of the SAS Superstructure being performed by Zhenhua Port Machinery Company (ZPMC) at Changxing Island in Shanghai, China. QA observed and/or found the following:

This QA Inspector randomly observed the following work in progress:

OBG # TRIAL ASSEMBLY YARD

WELDING

Segment # 10CW

This QA inspector observed ZPMC qualified welding personnel identified as 040320 perform Shielded Metal Arc Welding (SMAW), weld joint identified as CA082-001 & CA084-005; located On Orthotropic Box Girder (OBG) Edge Plate to Side Plate CJP Weld; excavated weld due to UT rejected areas. The Welding Repair Report (WRR) was B-WR16072. ZPMC Quality Control (QC) is identified as Mr. Wang Li Yang. The welding variables recorded by QC appeared to comply with the Applicable WPS-345-SMAW 4G (4F) FCM Repair-1 See the attached Photo.

Segment # 10CW

This QA inspector observed ZPMC qualified welding personnel identified as 044515 perform Shielded Metal Arc

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Welding (SMAW), weld joint identified as CA081-006 & SEG068*-044; located On Orthotropic Box Girder (OBG) Deck Plate to Edge Plate CJP Weld; excavated weld due to UT rejected areas. The Welding Repair Report (WRR) was B-WR16073. ZPMC Quality Control (QC) is identified as Mr. Wang Li Yang. The welding variables recorded by QC appeared to comply with the Applicable WPS-345-SMAW 2G (2F) FCM Repair-1.

Segment # 10CW

This QA inspector observed ZPMC qualified welding personnel identified as 044515 perform Shielded Metal Arc Welding (SMAW), weld joint identified as OBE11B-003; located On Orthotropic Box Girder (OBG) Edge Plate to Side Plate CJP Weld; excavated weld due to UT rejected areas. The Critical Welding Repair Report (CWRR) was B-CWR2072. ZPMC Quality Control (QC) is identified as Mr. Wang Li Yang. The welding variables recorded by QC appeared to comply with the Applicable WPS-345-SMAW 4G (4F) FCM Repair-1 See the attached Photo.

Segment # 10AE/FL3 (I-Rib Hold Back Weld)

This QA inspector performed Magnetic Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT reports for this date. The members are identified as Orthotropic Box Girder (OBG) Components. The weld designations reviewed are as follows.

FB020-PP086-001, 002, 005, 006, 015, 016. FB024-PP87-001, 002, 005, 006, 017, 018, 128. FB028-PP88-001, 002, 005, 006, 015, 016. BP026-PP87-028, 029, 038, 039. SEG60EPP87-149, 150, 077, 078, 113, 114, 095, 096. SEG60D-PP87-025, 026, 016, 017

Nondestructive testing (NDT) notification No. 07038

Segment # CB 13

This QA inspector performed Magnetic Testing (MT) of approximately 15% of the area previously tested and accepted by ZPMC Quality Control personnel. This QA Inspector generated an MT reports for this date. The members are identified as Orthotropic Box Girder (OBG) Components. The weld designations reviewed are as follows.

FB202-013-007,008 FB203-013-013,014 SP201-013-013,014 SP202-013-018,019 SP203-013-044,045 SP204-013-013,014

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SP205-013-018,019 BP202-013-007,008,011,012 BP203-013-007,008,011,012 DP202-013-021,022 DP203-013-021,022

Nondestructive testing (NDT) notification No. 07046

Unless otherwise noted, all work observed on this date appeared to generally comply with applicable contract documents.





Summary of Conversations:

Only general conversation was held between QA and QC concerning this project.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang phone: 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Prabhune,Manoj	Quality Assurance Inspector
Reviewed By:	Patterson,Rodney	QA Reviewer